

## ABSTRACT

In the data transmitting method according to this invention, the application layer reads a resolver to acquire a node identifier and then makes an inquiry to the DNS server when a user designates the hose name of the destination. Upon acquiring the node identifier, the application layer transmits the node identifier to the VIP layer through the TCP/UDP layer. The VIP layer makes an inquiry to the DNS server to acquire the home prefix of the destination node in accordance with the node identifier. After acquiring the node identifier and the home prefix, the VIP layer combines them together, generating a mobile-oriented IPv6 address. Mobile permeability can thereby realized, without increasing the header size of packets, in the data transmitting method according to the present invention.